

WHAT IS CLAIMED IS:

- 1        1. A portable electronic device, comprising:
  - 2              a housing;
  - 3              computing electronics supported by the housing, including a
  - 4              processor, a display controller coupled to the processor and memory
  - 5              coupled to the processor;
  - 6              an expandable display coupled to the display controller, the
  - 7              expandable display is expandable from a first size to a second size, the
  - 8              first size being different than the second size; and
  - 9              a sensor coupled to the processor, the sensor configured to
  - 10          provide a signal representative of the size of the display.
- 1        2. The portable electronic device of claim 1, wherein the
- 2              computing electronics run a program to interpret the signal and to
- 3              reformat information on the display, to fill the display screen.
- 1        3. The portable electronic device of claim 2, wherein the
- 2              reformat includes displaying more information on the display.
- 1        4. The portable electronic device of claim 2, wherein the
- 2              reformat includes displaying less information on the display.
- 1        5. The portable electronic device of claim 2, wherein the
- 2              reformat includes displaying the same amount of information at a different
- 3              resolution.
- 1        6. The portable electronic device of claim 1, wherein the
- 2              expandable display includes a foldable display.
- 1        7. The portable electronic device of claim 1, wherein the
- 2              expandable display includes a rollable display.

1        8.     The portable electronic device of claim 7, wherein the  
2     housing includes an aperture wherein a user may view information  
3     through the aperture on a portion of the rollable display within the housing

4        9.     The portable electronic device of claim 1, wherein the sensor  
5     includes a hinge sensor.

1        10.    The portable electronic device of claim 1, wherein the sensor  
2     includes an electrotextile sensor.

1        11.    The portable electronic device of claim 1, wherein the sensor  
2     includes a magnetic sensor.

1        12.    The portable electronic device of claim 1, wherein the sensor  
2     includes an electrical sensor.

1        13.    The portable electronic device of claim 1, wherein the sensor  
2     includes an optical sensor.

1        14.    A method of providing information to a user of an electronic  
2     device, comprising:

3              providing a first amount of user information on a display in a  
4     first size configuration;

5              resizing the display to a second size configuration;  
6              sensing, automatically, the second size configuration of the  
7     display; and

8              reformatting the displayed image according to the second  
9     size configuration.

1        15.    The method of claim 14 wherein the reformatting includes  
2     displaying a second amount of user information on the display in the  
3     second configuration.

1        16. The method of claim 15 wherein the second amount of user  
2 information is more than the first amount of user information.

1        17. The method of claim 15 wherein the first amount of user  
2 information is the same as the second amount of user information, and  
3 the second amount of user information is displayed at a different  
4 resolution.

1        18. A display for an electronic device, comprising:  
2              a first display surface, the first display surface being visible  
3 in a first configuration;  
4              a second display surface, the second display surface being  
5 larger than the first display surface, the second display surface being  
6 visible in a second configuration; and  
7              a sensor configured to provide a configuration signal  
8 representative of the display being in one of the first configuration and the  
9 second configuration.

1        19. The display of claim 18 wherein the first and second display  
2 surfaces are part of a foldable display.

1        20. The display of claim 18 wherein the first and second display  
2 surfaces are part of a rollable display.

1        21. The display of claim 18 wherein the sensor includes a hinge  
2 sensor.

1        22. The display of claim 18 wherein the sensor includes an  
2 electrotextile sensor.

1        23. The display of claim 18 wherein the sensor includes a  
2 magnetic sensor.

1           24. The display of claim 18 wherein the sensor includes an  
2       electrical sensor.

1           25. The display of claim 18 wherein the sensor includes an  
2       optical sensor.

1           26. A portable electronic device configured to provide  
2       information to a user of the portable electronic device, comprising:  
3                 a means for providing a first amount of user information on a  
4       display in a first size configuration;  
5                 a means for resizing the display to a second size  
6       configuration;  
7                 a means for sensing, automatically, the second size  
8       configuration of the display; and  
9                 a means for reformatting the displayed image according to  
10      the second size configuration.

1           27. The portable electronic device of claim 26 wherein the  
2       means for reformatting includes a means displaying a second amount of  
3       user information on the display in the second configuration.

1           28. The portable electronic device of claim 27 wherein the  
2       second amount of user information is more than the first amount of user  
3       information.

1           29. The portable electronic device of claim 27 wherein the first  
2       amount of user information is the same as the second amount of user  
3       information, and the second amount of user information is displayed at a  
4       different resolution.